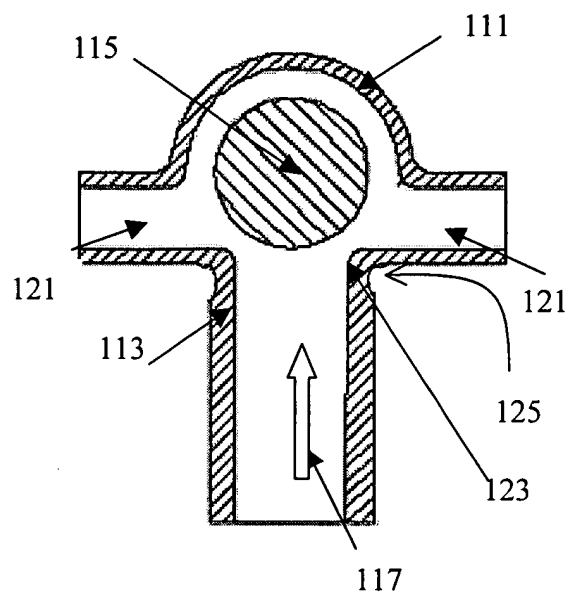
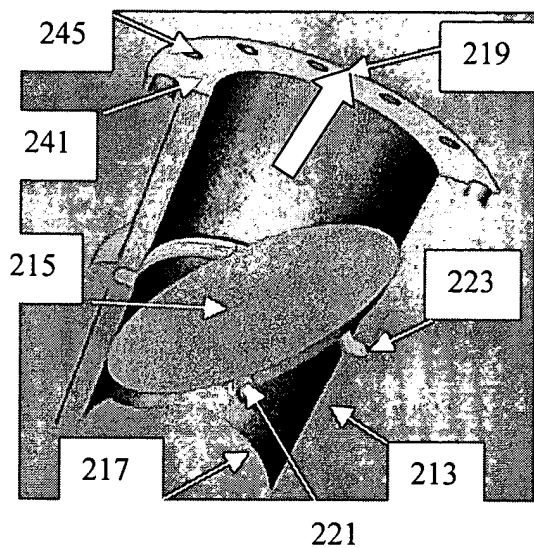


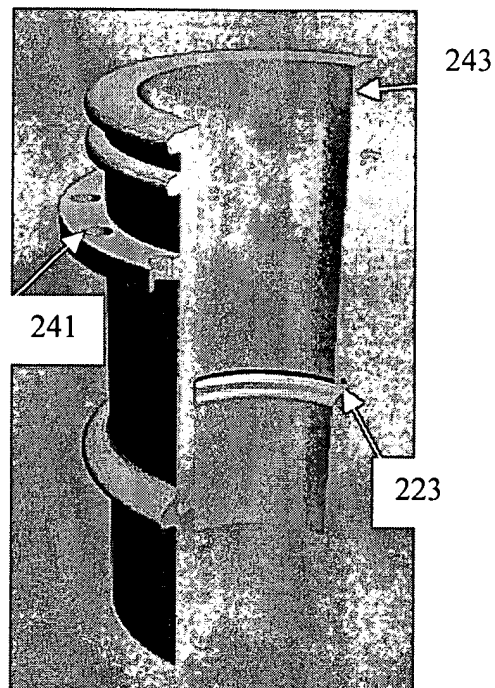
**FIG. 1a**



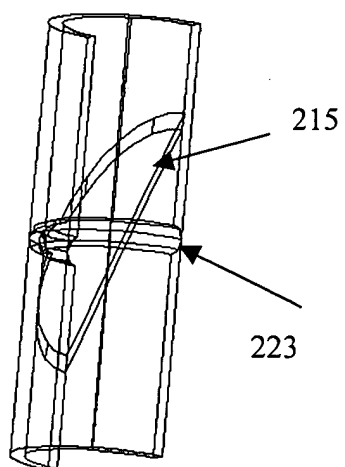
**FIG. 1b**



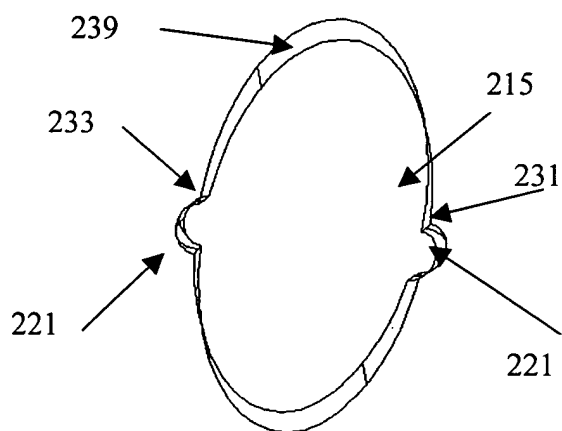
**FIG. 2a**



**FIG. 2b**



**FIG. 2c**



**FIG. 2d**

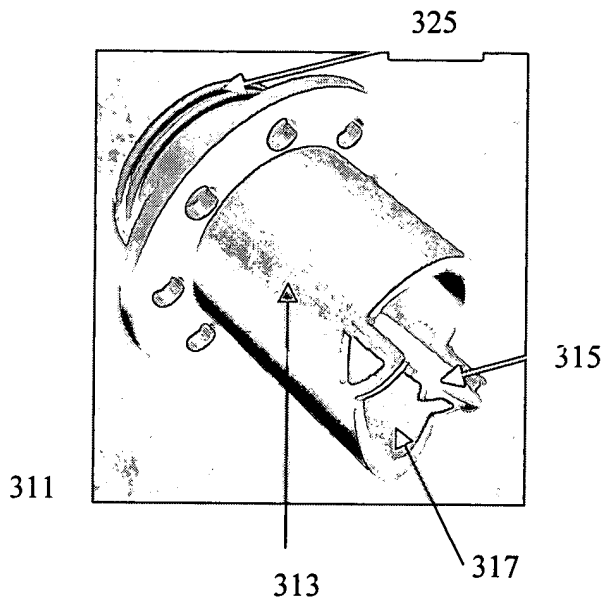


FIG. 3a

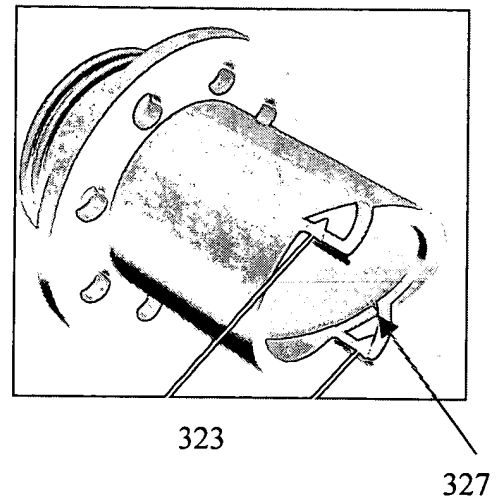


FIG. 3b

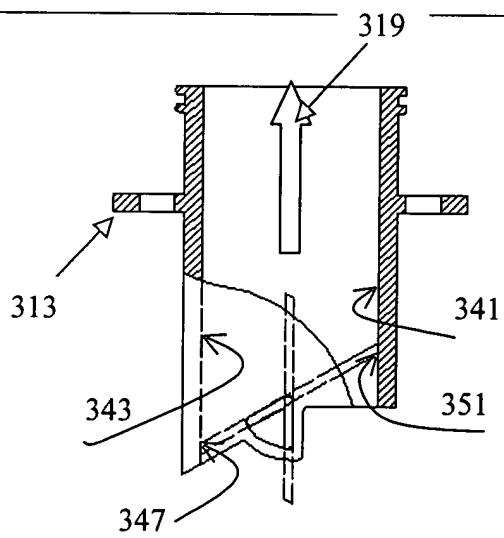


FIG. 3c

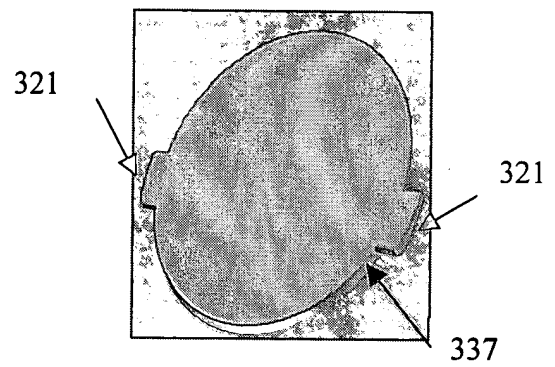


FIG. 3d

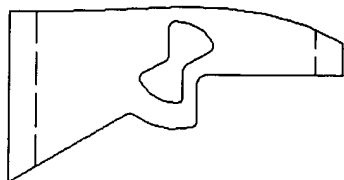


FIG. 3e

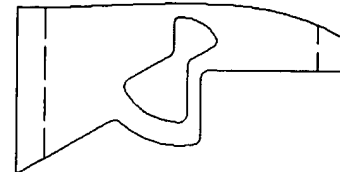
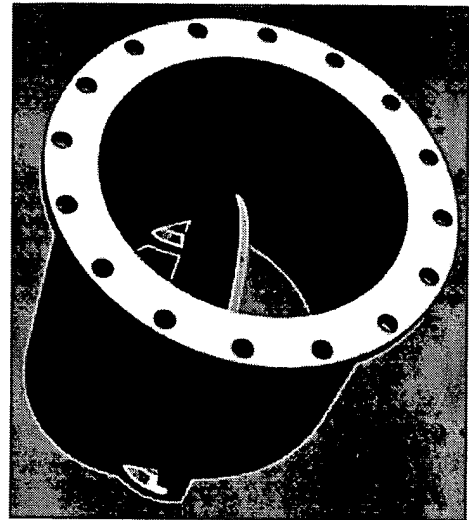


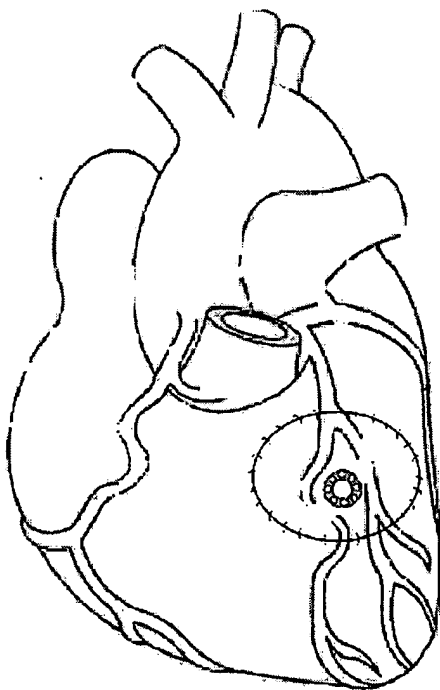
FIG. 3f



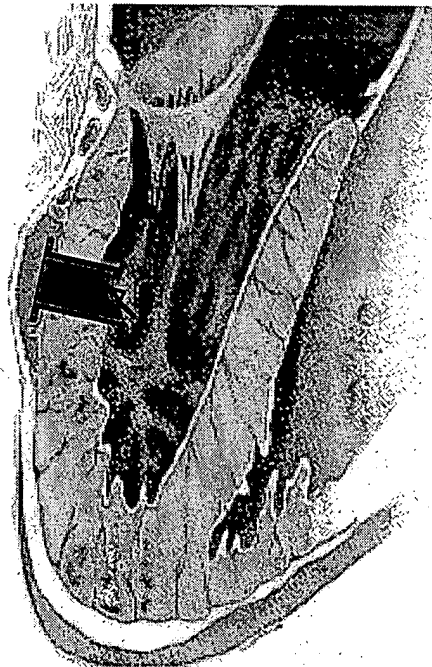
**FIG. 3g**



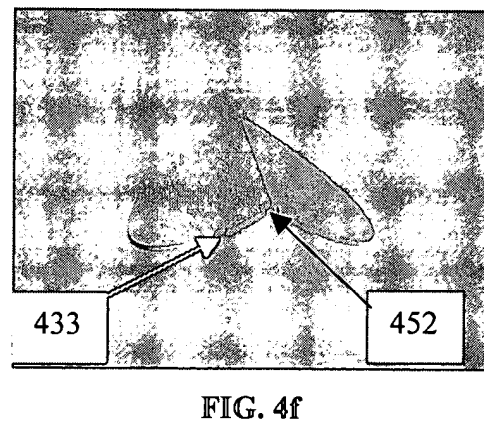
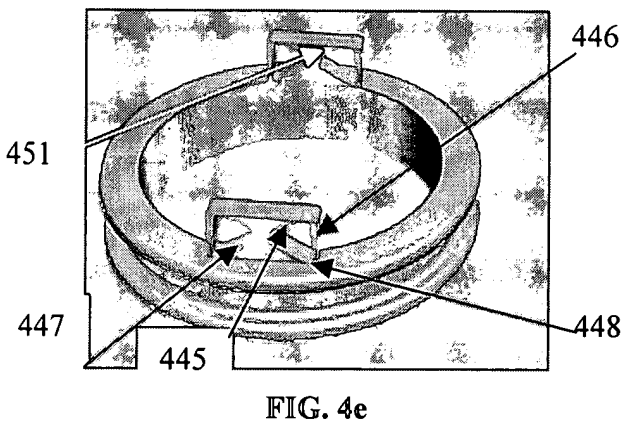
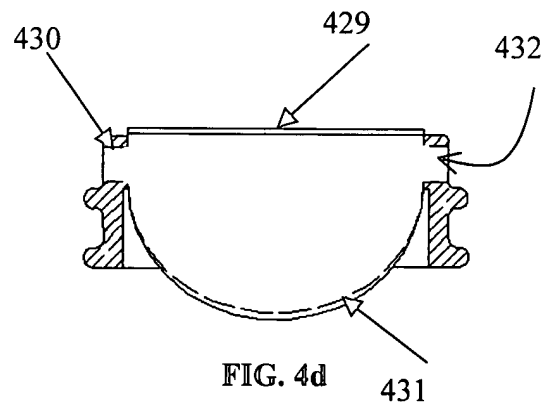
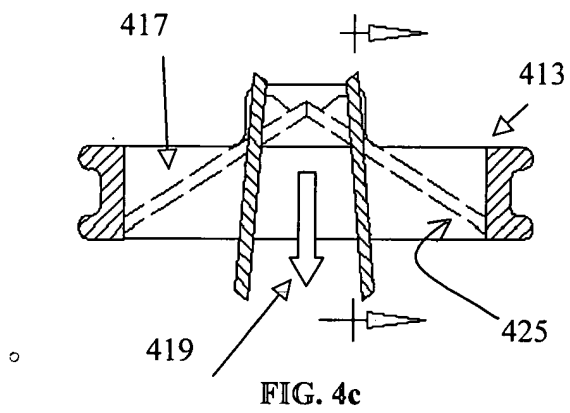
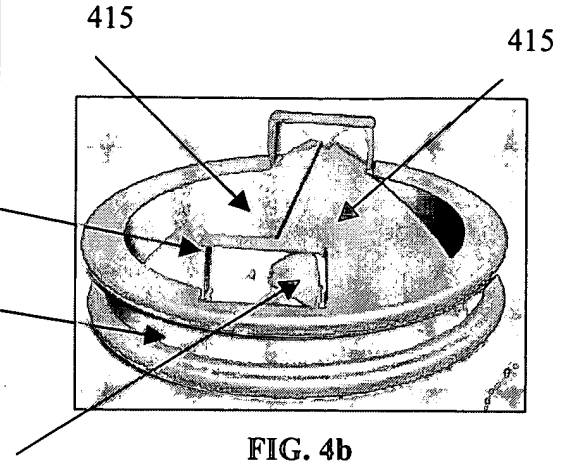
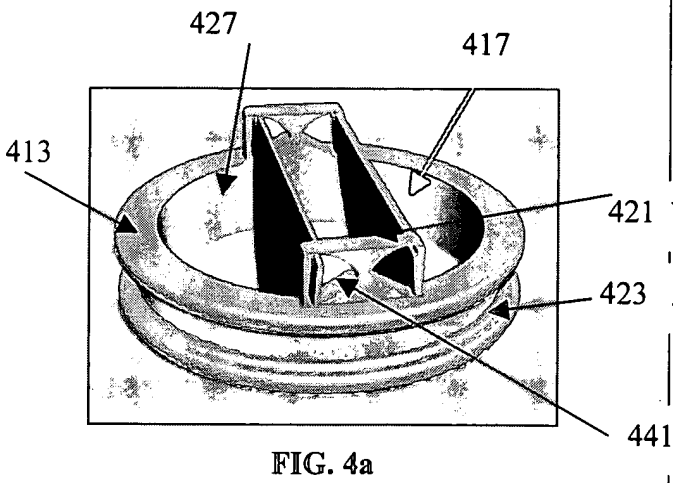
**FIG. 3h**

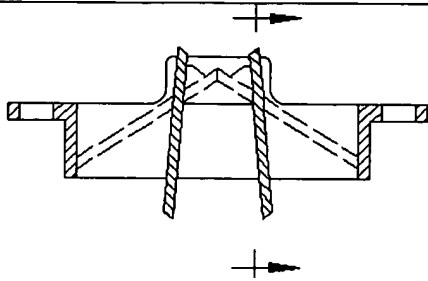


**FIG. 3i**



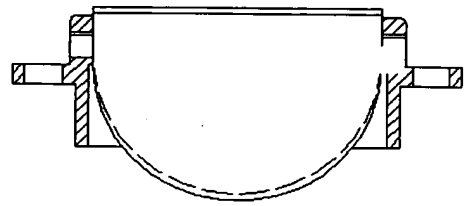
**FIG. 3j**



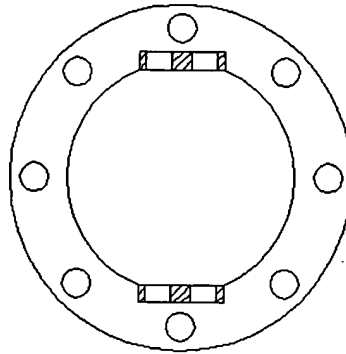


**FIG. 4g**

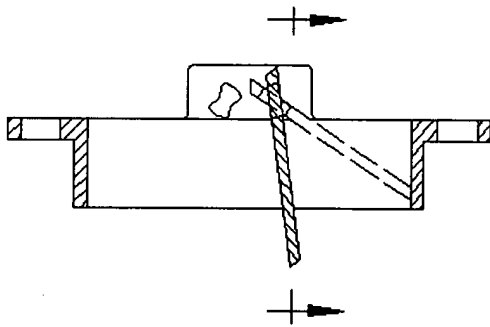
411'



**FIG. 4h**

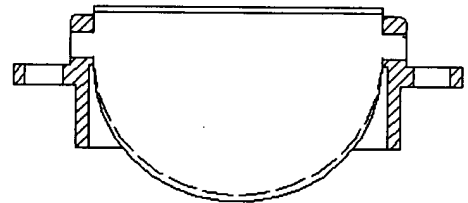


**FIG. 4i**

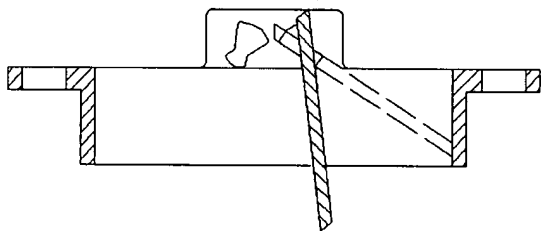


**FIG. 4j**

411''

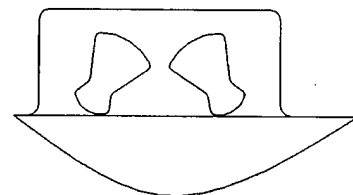


**FIG. 4k**

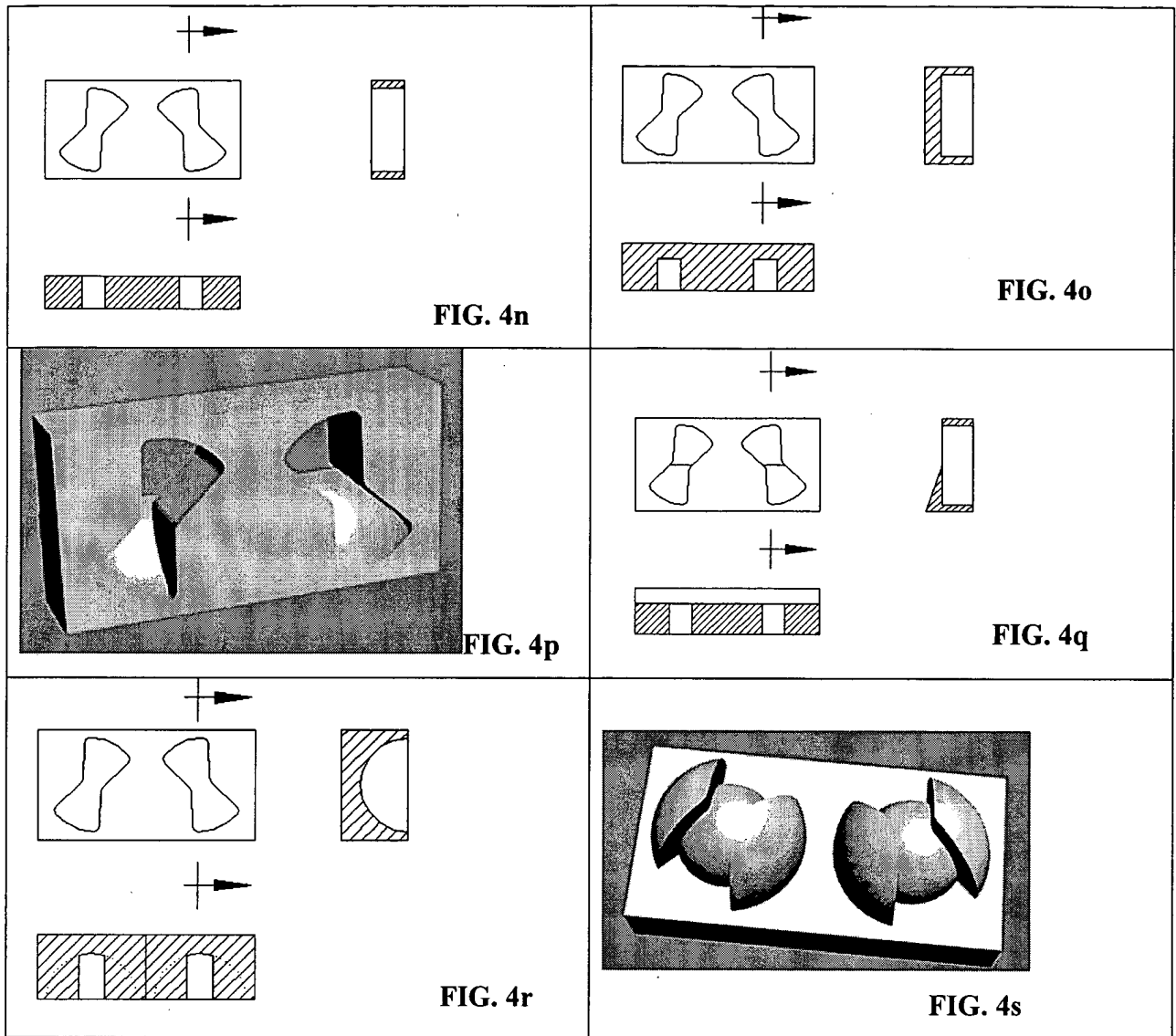


**FIG. 4l**

411'''



**FIG. 4m**



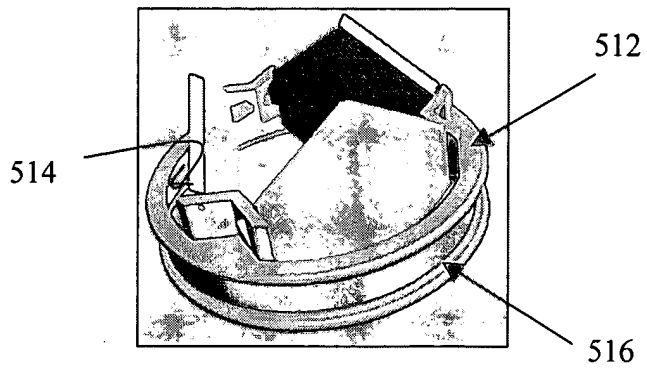


FIG. 5a

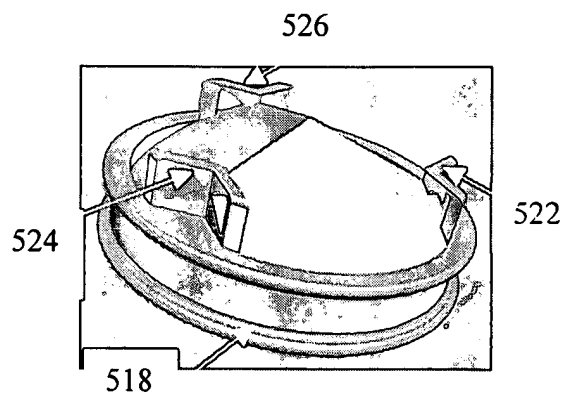


FIG. 5b

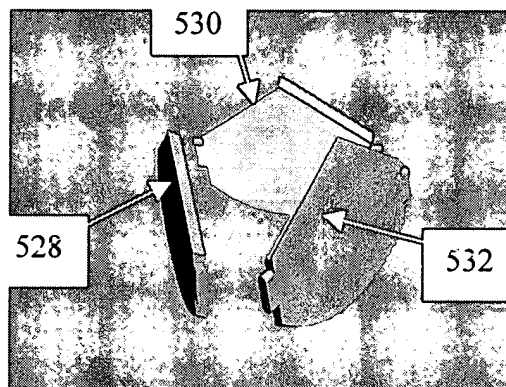


FIG. 5c

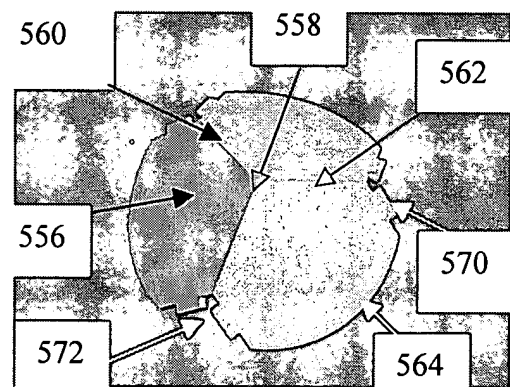
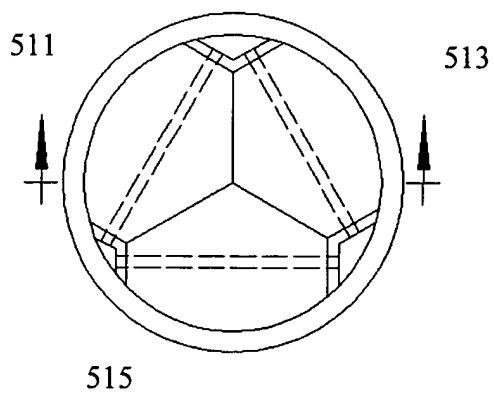
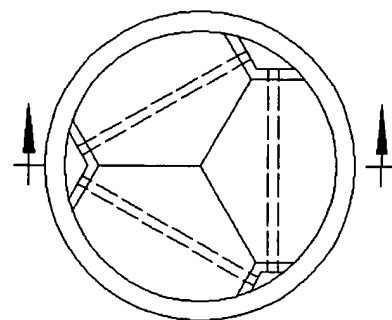


FIG. 5d

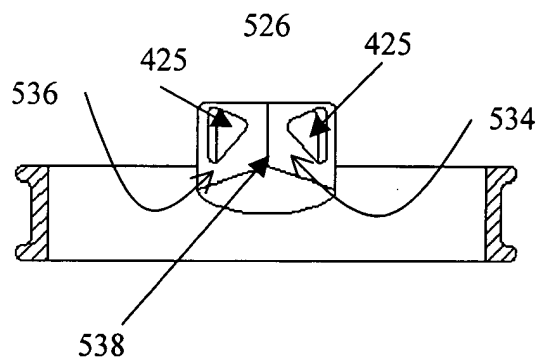




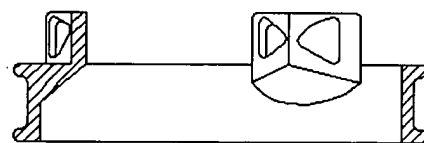
**FIG. 5e**



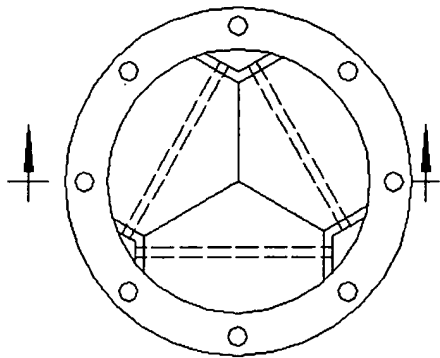
**FIG. 5f**



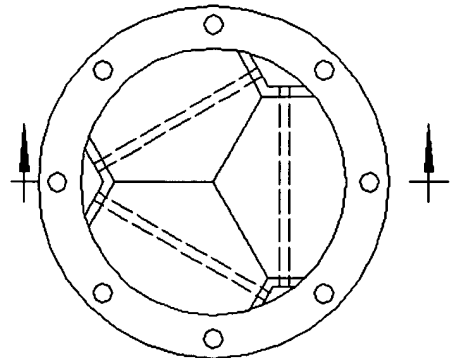
**FIG. 5g**



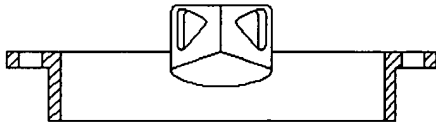
**FIG. 5h**



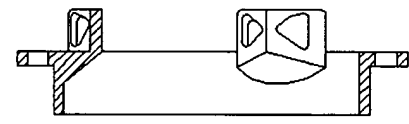
**FIG. 5i**



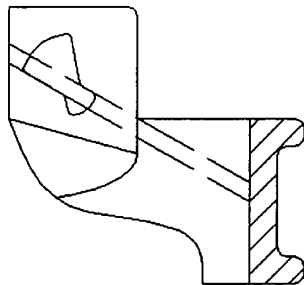
**FIG. 5j**



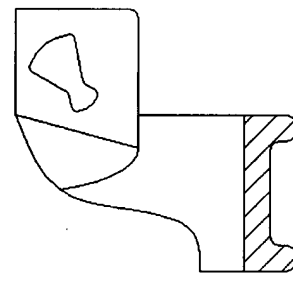
**FIG. 5k**



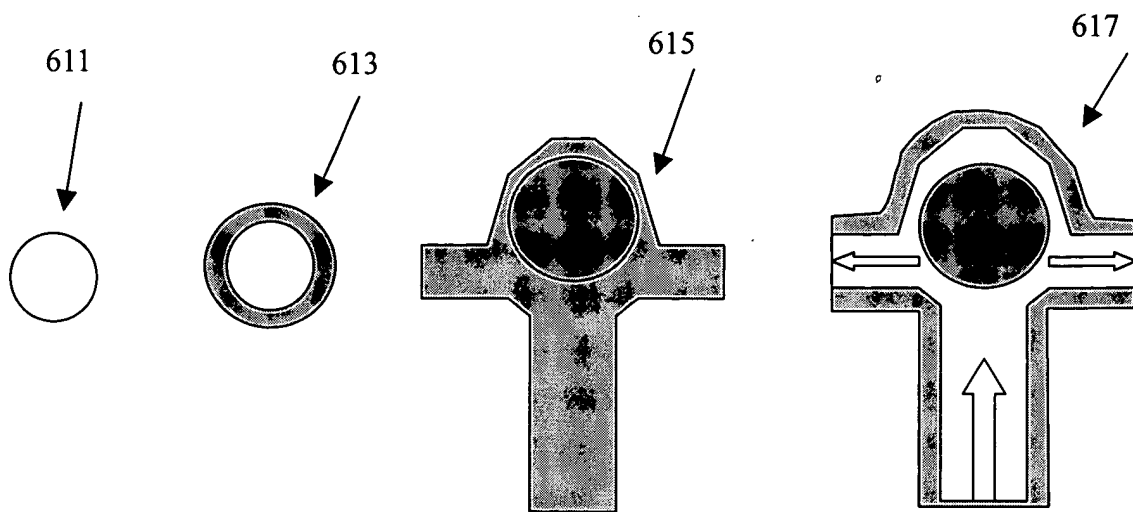
**FIG. 5l**



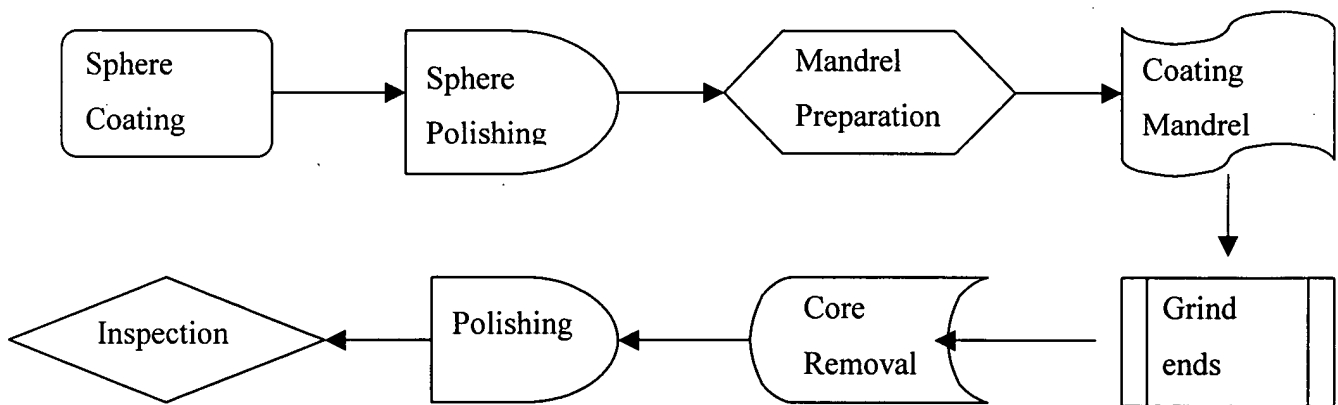
**FIG. 5m**



**FIG. 5n**



**FIG. 6**



**FIG. 7**

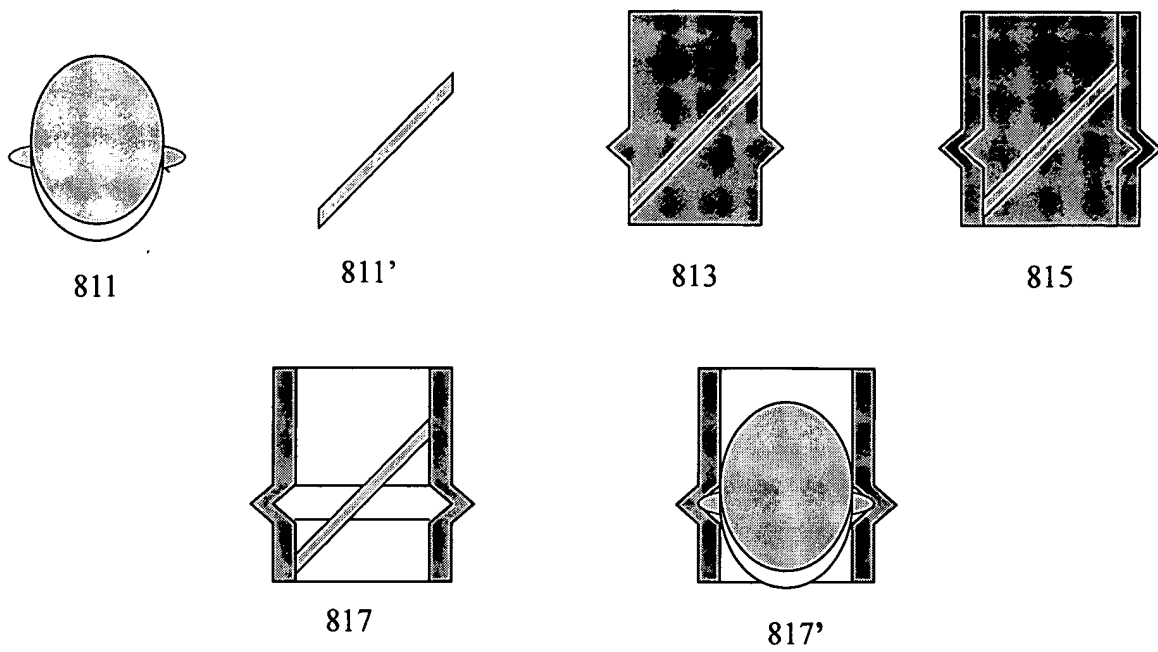


FIG. 8

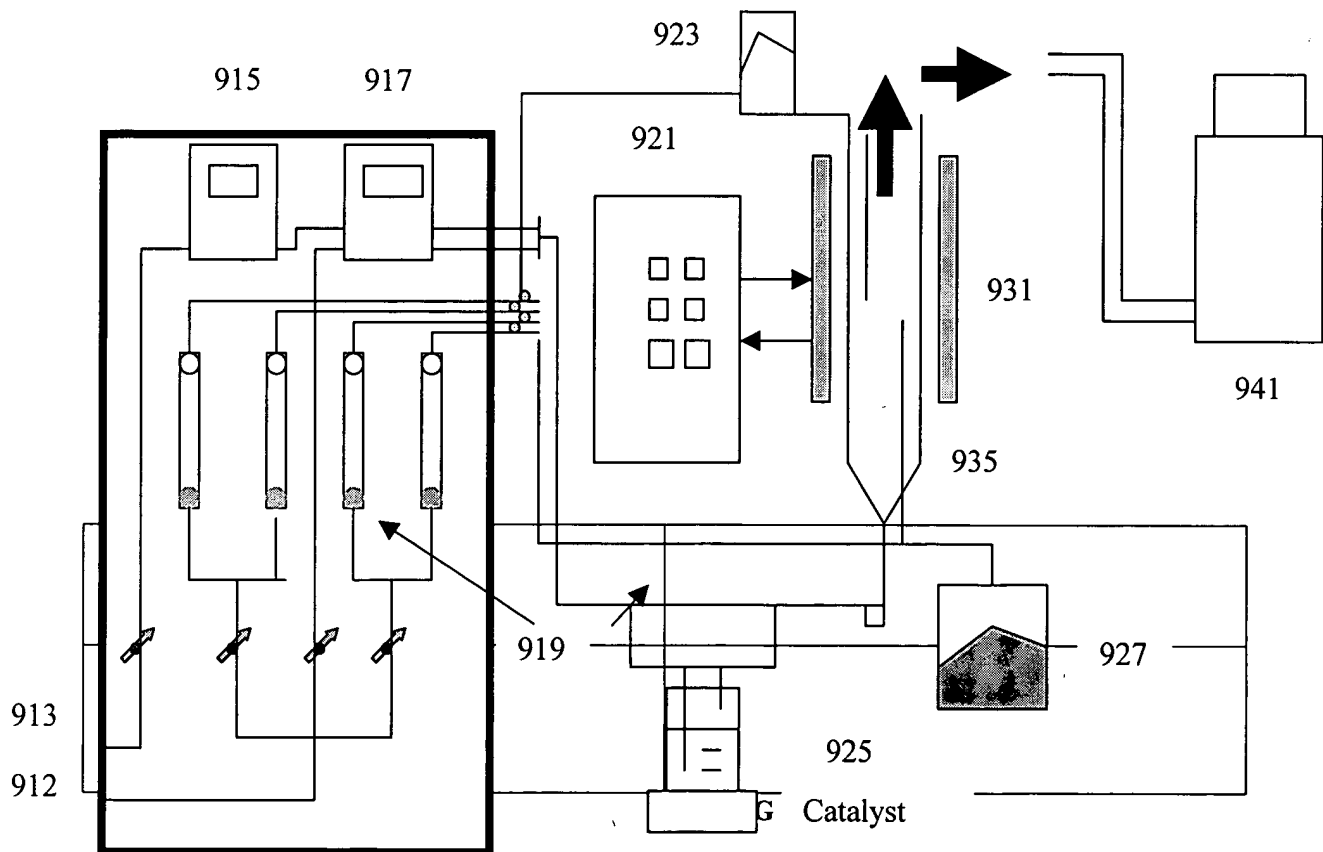
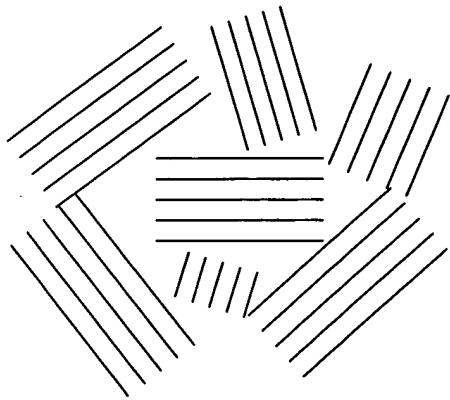
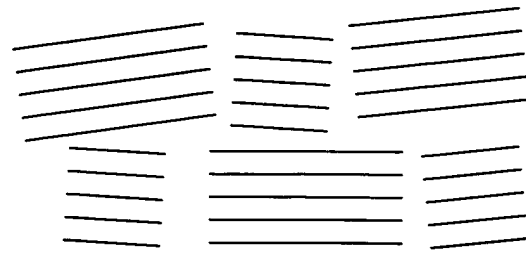


FIG. 9

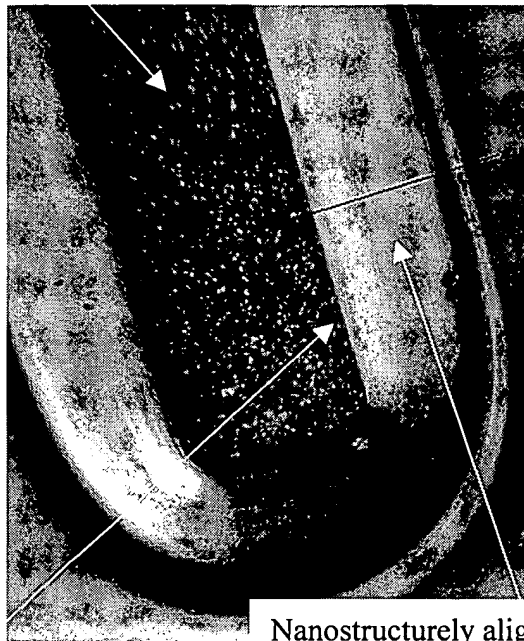


**FIG. 10a**



**FIG. 10b**

Carbon fiber reinforced  
graphite substrate



Nanostructurely aligned surface layer

Carbon nanofiber reinforced PyC

**FIG. 11**